

Pogue et al.
Serial No.: 10/061,216
Page 2 of 7

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listing of the claims in the application:

LISTING OF THE CLAIMS:

Claims 1-69 (canceled).

Claim 70 (currently amended) A method of isolating a virus, comprising:

- (a) Homogenizing virus-containing plant tissue in Na₂S₂O₅;
- (b) Straining the homogenate to obtain green juice;
- (c) Adjusting the pH of the green juice to about 5.0 with acid;
- (d) Heating the green juice to about 47° C for a period of about 5 minutes followed by cooling to about 15° C;
- (e) Centrifuging the green juice at about 6000 x g for about 3 minutes to obtain a supernatant and pellet;
- (f) Precipitating the supernatant in a mixture of polyethylene glycol and about 4% NaCl to obtain a precipitate;
- (g) Resuspending the precipitate in water at a concentration of about 1 mg per ml;
- (h) Extracting the precipitate in chloroform and butanol and centrifuging the extract;
- (i) Recovering and lyophilizing the aqueous phase of the centrifuged material;

Pogue et al.
Serial No.: 10/061,216
Page 3 of 7

- (j) Resuspending the lyophilized material at a concentration of about 5 to about 10 mg per ml water.

Claims 71-78 (canceled).

Claim 79 (currently amended) A method for extracting a virus from plant tissue, comprising the steps of:

homogenizing virus-containing plant tissue to obtain green juice;
adjusting the pH of the green juice to about 5.0;
heating the green juice to about 47° C;
cooling the green juice;
centrifuging the green juice at about 6000 x g to obtain a supernatant and pellet;
precipitating the supernatant in polyethylene glycol and a salt to obtain a precipitate;
resuspending the precipitate in an aqueous solution;
extracting the precipitate in an organic solvent and centrifuging the extract;
recovering the aqueous phase of the centrifuged material;
resuspending the centrifuged material.

Claim 80 (previously presented) A method as set forth in claim 79, wherein said homogenizing step includes homogenizing the virus-containing plant tissue in Na₂S₂O₅.

Claim 81 (previously presented) A method as set forth in claim 80, further comprising the step after said homogenizing step of straining the homogenate to obtain the green juice.

Pogue et al.
Serial No.: 10/061,216
Page 4 of 7

Claim 82 (currently amended) A method as set forth in claim 81, wherein in said heating step the green juice is heated for a period of about 5 minutes.

Claim 83 (currently amended) A method as set forth in claim 82, wherein in said cooling step, the green juice is cooled to about 5° C.

Claim 84 (currently amended) A method as set forth in claim 83, wherein in said centrifuging step, the green juice is centrifuged for about 3 minutes.

Claim 85 (previously presented) A method as set forth in claim 79, further comprising lyophilizing the aqueous phase of the centrifuged material.

Claim 86. (previously presented) A method as set forth in claim 79, wherein the salt is NaCl.

Claim 87. (previously presented) A method as set forth in claim 79, wherein the organic solvent is chloroform and/or butanol.

Claim 88. (new) A method as set forth in claim 79, wherein said precipitating the supernatent is in about 4% of a salt.